

Fig. 1

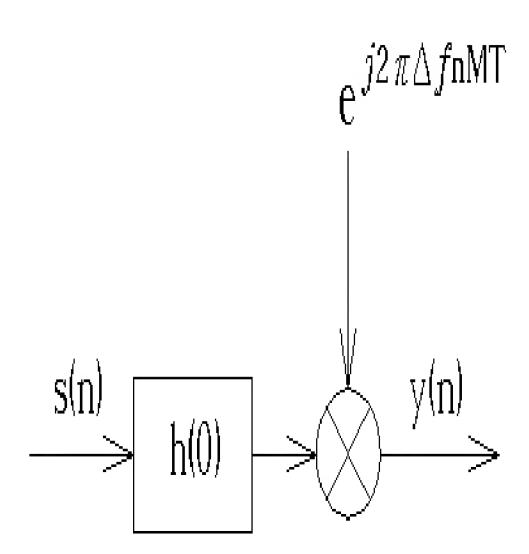


Fig. 2

Equ.1
$$\chi(n) = \sum_{k} s(k) c (n - MK)$$

Equ.2
$$y(n) = s(n)h(0)e^{j2\pi\Delta f nMT}$$

Equ.3
$$P_n = y(n+1)y^*(n)$$

$$= \pm |\mathbf{S}(\mathbf{n})|^2 |\mathbf{h}(\mathbf{0})|^2 e^{j2\pi\Delta f \mathbf{MT}}$$

Equ.4
$$\Delta f = \arg \{ sign \} \Re \{ P_n \} \cdot P_n \} / (2\pi MT)$$

Equ.5
$$\Delta f = \arg \{ \sum_{n} \operatorname{sign} \{ \operatorname{Re} \{ P_n \} \} \cdot P_n \} / (2\pi MT) \}$$

Fig. 3

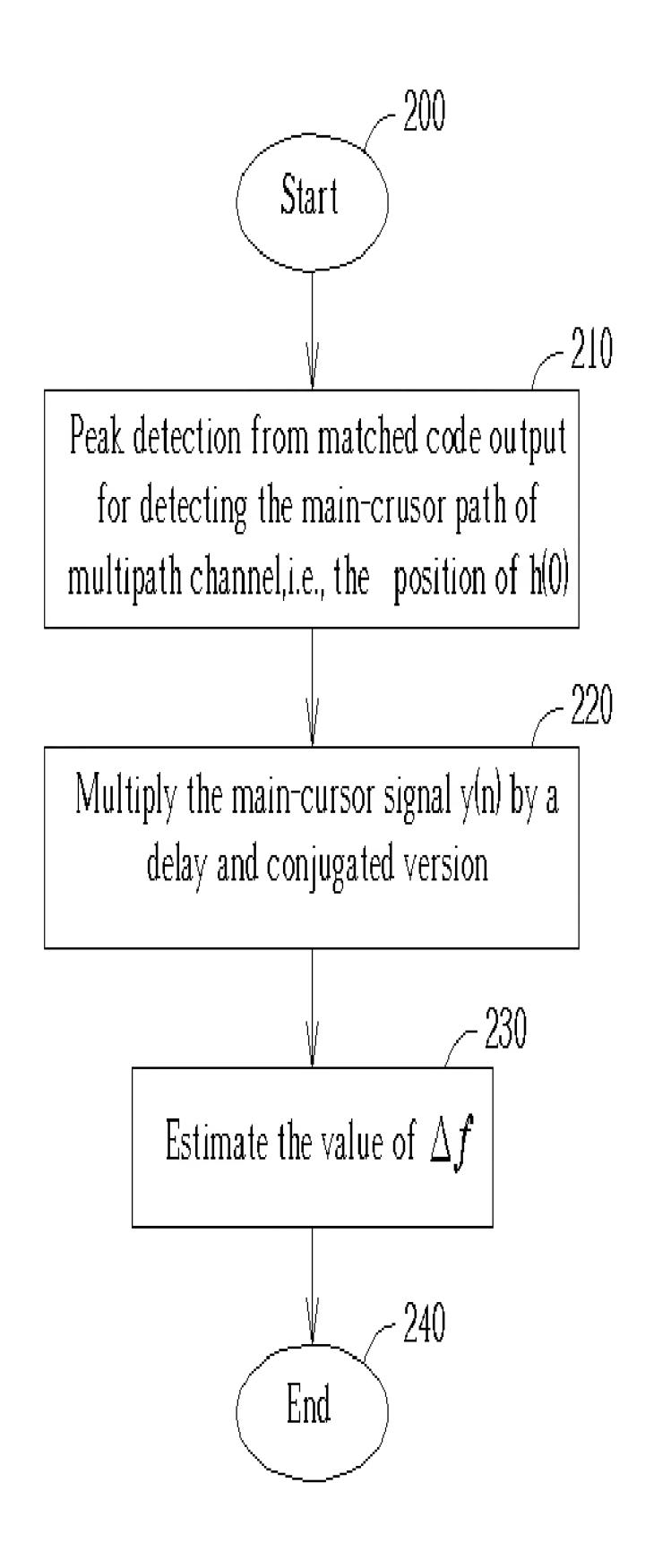


Fig. 4

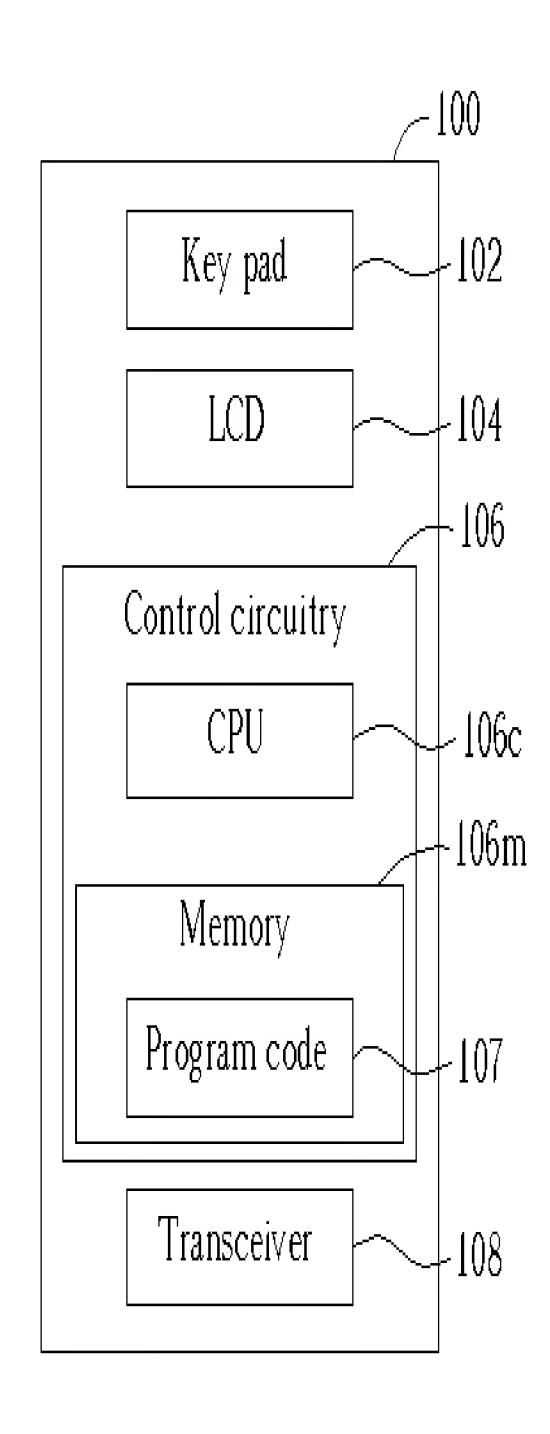


Fig. 5